Contents to volume 330

Hypotheses

Kin recognition: A model for the retention of Golgi enzymes (FEBS 12918) *T. Nilsson, P. Slusarewicz, M.H. Hoe, G. Warren* 1

Excitonic interactions in the light-harvesting antenna of photosynthetic purple bacteria and their influence on picosecond absorbance difference spectra (FEBS 12911) *V.I Novoderezhkin, A.P. Razjivin* 5

Research Letters

Storage of saposins A and D in infantile neuronal ceroid-lipofuscinosis (FEBS 12923) *J. Tyynelä, D.N. Palmer, M. Baumann, M. Haltia* 8

Mammalian calponin: Identification and expression of genetic variants (FEBS 12916) *P. Strasser, M. Gimona, H. Moessler, M. Herzog, J.V. Small* 13

Ultrastructure of membrane-bound Na,K-ATPase after extensive tryptic digestion (FEBS 12888) *G. Ning, A.B. Maunsbach, M. Esmann* 19

Biosynthesis and secretion of a precursor of nisin Z by *Lactococcus lactis*, directed by the leader peptide of the homologous lantibiotic subtilin from *Bacillus subtilis* (FEBS 12927) *O.P. Kuipers, H.S. Rollema, W.M. de Vos, R.J. Siezen* 23

Flash induced XANES spectroscopy for the Ca-depleted Mn-cluster in the photosynthetic O_2-evolving enzyme (FEBS 12924) *T.-a. Ono, T. Noguchi, Y. Inoue, M. Kusunoki, H. Yamaguchi, H. Oyanagi* 28

Methylglyoxal and the polyol pathway: Three-carbon compounds are substrates for sheep liver sorbitol dehydrogenase (FEBS 12925) *R.I. Lindstad, J.S. McKinley-McKee* 31

Purification of an UDP-glucose:flavone, 7-*O*-glucosyltransferase, from *Silene latifolia* using a specific interaction between the enzyme and phenyl–Sepharose (FEBS 12926) *P. Vellekoop, L. Lugones, J. van Brederode* 36

Effects of ionizing irradiation on endothelial cell transglutaminase (FEBS 12928) *G. Korner, V.R. Deutsch, I. Vlodavsky, A. Eldor* 41

Ribosomal proteins, TL4 and TL5, from *Thermus thermophilus* form hybrid complexes with 5 S ribosomal RNA from different microorganisms (FEBS 12931) *G.M. Gongadze, S.V. Tishchenko, S.E. Sedelnikova, M.B. Garber* 46

β-Amyloid protein enhances the mitogen-induced calcium response in circulating human lymphocytes (FEBS 12929) *A. Eckert, H. Hartmann, W.E. Müller* 49

Tamoxifen and related compounds decrease membrane fluidity in liposomes: Mechanism for the antioxidant action of tamoxifen and relevance to its anticancer and cardioprotective actions? (FEBS 12915) *H. Wiseman, P. Quinn, B. Halliwell* 53

A plasma-membrane progesterone receptor in human sperm is switched on by increasing intracellular free calcium (FEBS 12934) *C. Mendoza, J. Tesarik* 57

Efficient processing and export of human growth hormone by heat labile enterotoxin chain B signal sequence (FEBS 12932) *A. Ghorpade, L.C. Garg* 61

Identification of MIM23, a putative component of the protein import machinery of the mitochondrial inner membrane (FEBS 12935) *P.J.T. Dekker, P. Keil, J. Rassow, A.C. Maarse, N. Pfanner, M. Meijer* 66

Phospholipid asymmetry of the outer membrane of rat liver mitochondria: Evidence for the presence of cardiolipin on the outside of the outer membrane (FEBS 12936) *R. Hovius, J. Thijssen, P. van der Linden, K. Nicolay, B. de Kruijff* 71

cDNA cloning and pharmacological characterization of an opioid receptor with high affinities for κ-subtype-selective ligands (FEBS 12937) *M. Nishi, H. Takeshima, K. Fukuda, S. Kato, K. Mori* 77

Enhancement by retinoid of hemin-induced differentiation of human leukemia K562 cell line (FEBS 12938) *O. Nakajima, Y. Hashimoto, S. Iwasaki* 81

Dephosphorylation of distinct sites on microtubule-associated protein MAP1B by protein phosphatases 1, 2A and 2B (FEBS 12939) *L. Ulloa, V. Dombrádi, J. Díaz-Nido, K. Szücs, P. Gergely, P. Friedrich, J. Avila* 85

Cooperative homodimeric hemoglobin from *Scapharca inaequivalvis*: cDNA cloning and expression of the fully functional protein in *E. coli* (FEBS 12942) *A. Gambacurta, M.C. Piro, F. Ascoli* 90

Uridylylation of the P_{II} protein in *Rhizobium leguminosarum* (FEBS 12944) *S. Colonna-Romano, E.J. Patriarca, M. Amar, P. Bernard, G. Manco, A. Lamberti, M. Iaccarino, R. Defez* 95

The cyanobacterium, *Synechococcus* sp. PCC7942, possesses two distinct genes encoding cation-transporting P-type ATPases (FEBS 12945) *K. Kanamaru, S. Kashiwagi, T. Mizuno* 99

Observation of inter-subunit nuclear Overhauser effects in a dimeric protein: Application to the Arc repressor (FEBS 12943) *M.J.M. Burgering, R. Boelens, M. Caffrey, J.N. Breg, R. Kaptein* 105

Production of recombinant antibodies in lymphoid and non-lymphoid cells (FEBS 12930) *S.M. Deyev, A. Lieber, B.V. Radko, O.L. Polanovsky* 111

Staurosporine-related compounds, K252a and UCN-01, inhibit both cPKC and nPKC (FEBS 12946) *K. Mizuno, T.C. Saido, S. Ohno, T. Tamaoki, K. Suzuki* 114

Increased anti-HIV-1 activity of CD4 CDR3-related synthetic peptides by scrambling and further structural modifications, including D-isomerization and dimerization (FEBS 12947) *K. Kumagai, K. Tokunaga, M. Tsutsumi, K. Ikuta* 117

cDNA isolation and partial gene structure of the human α4(IV) collagen chain (FEBS 12948) *M. Sugimoto, T. Oohashi, H. Yoshioka, N. Matsuo, Y. Ninomiya* 122

Fluorescence quenching at interfaces and the permeation of acrylamide and iodide across phospholipid bilayers (FEBS 12949) *F. Moro, F.M. Goñi, M.A. Urbaneja* 129

Modification by site-directed mutagenesis of the specificity of *Erythrina corallodendron* lectin for galactose derivatives with bulky substituents at C-2 (FEBS 12952) *R. Arango, E. Rodriguez-Arango, R. Adar, D. Belenky, F.G. Loontiens, S. Rozenblatt, N. Sharon* 133

Three-dimensional structure of a barnase–3′GMP complex at 2.2Å resolution (FEBS 12951) *V. Guillet, A. Lapthorn, Y. Mauguen* 137

Phosphorylated residues as specificity determinants for an acidophilic protein tyrosine kinase: A study with src and cdc2 derived phosphopeptides (FEBS 12950) *A. Donella-Deana, O. Marin, A.M. Brunati, L. Cesaro, C. Piutti, L.A. Pinna* 141

Purification and reconstitution of the δ opioid receptor (FEBS 12953) *K.G. Gomathi, S.K. Sharma* 146

Cloning and expression of a novel human profilin variant, profilin II (FEBS 12955) *B. Honoré, P. Madsen, A.H. Andersen, H. Leffers* 151

Expression of mRNA for cyclooxygenase-1 and cyclooxygenase-2 in human tissues (FEBS 12956) *G.P. O'Neill, A.W. Ford-Hutchinson* 156

Published by Elsevier Science Publishers B.V.

Mechanisms of the inhibition of reverse transcription by unmodified and modified antisense oligonucleotides (FEBS 12958) *T. Hatta, S.-G. Kim, H. Nakashima, N. Yamamoto, K. Sakamoto, S. Yokoyama, H. Takaku* 161
Nitric oxide synthase activity from a hematophagous insect salivary gland (FEBS 12959) *J.M.C. Ribeiro, R.H. Nussenzveig* 165
cDNAs sequences encoding cytochrome P450 (CYP71 family) from eggplant seedlings (FEBS 12957) *N. Umemoto, O. Kobayashi, O. Ishizaki-Nishizawa, T. Toguri* 169
Prooxidant role of vitamin E in copper induced lipid peroxidation (FEBS 12960) *M. Maiorino, A. Zamburlini, A. Roveri, F. Ursini* 174
The conformation of tRNA genes: Chemical modification studies (FEBS 12962) *A. McLaren, E.S. Gonos, T. Carr, J.P. Goddard* 177
Peroxynitrite modification of low-density lipoprotein leads to recognition by the macrophage scavenger receptor (FEBS 12961) *A. Graham, N. Hogg, B. Kalyanaraman, V. O'Leary, V. Darley-Usmar, S. Moncada* 181
The expression of the abnormal human red cell anion transporter from South-East Asian ovalocytes (band 3 SAO) in *Xenopus* oocytes (FEBS 12965) *J.D. Groves, S.M. Ring, A.E. Schofield, M.J.A. Tanner* 186
Primary structure of the 5 S subunit of transcarboxylase as deduced from the genomic DNA sequence (FEBS 12964) *C.G. Thornton, G.K. Kumar, B.C. Shenoy, F.C. Haase, N.F.B. Phillips, V.M. Park, W.J. Magner, D.P. Hejlik, H.G. Wood, D. Samols* 191
Interaction of GTP-binding protein Gq with photoactivated rhodopsin in the photoreceptor membranes of crayfish (FEBS 12966) *A. Terakita, T. Hariyama, Y. Tsukahara, Y. Katsukura, H. Tashiro* 197
The mitochondrial permeability transition pore may comprise VDAC molecules: I. Binary structure and voltage dependence of the pore (FEBS 12967) *I. Szabó, M. Zoratti* 201
The mitochondrial permeability transition pore may comprise VDAC molecules: II. The electrophysiological properties of VDAC are compatible with those of the mitochondrial megachannel (FEBS 12968) *I. Szabó, V. De Pinto, M. Zoratti* 206
One of the chloroplast envelope ion channels is probably related to the mitochondrial VDAC (FEBS 12969) *I.I. Pottosin* 211
Purification of the 260 kDa cytosolic complex involved in the superoxide production of guinea pig neutrophils (FEBS 12970) *A. Someya, I. Nagaoka, T. Yamashita* 215
Lithium γ-linolenate-induced cytotoxicity against cells chronically infected with HIV-1 (FEBS 12971) *D. Kinchington, S. Randall, M. Winther, D. Horrobin* 219
Excitatory amino acid-induced slow biphasic responses of free intracellular calcium in human neuroblastoma cells (FEBS 12972) *J. Naarala, P. Nykvist, M. Tuomala, K. Savolainen* 222
A novel ryanodine sensitive calcium release mechanism in cultured human myometrial smooth-muscle cells (FEBS 12973) *S. Lynn, J.M. Morgan, J.I. Gillespie, J.R. Greenwell* 227
Compartmentation of inorganic phosphate in perfused rat liver: Can cytosol be distinguished from mitochondria by ^{31}P NMR? (FEBS 12974) *E. Thiaudiere, J.-L. Gallis, S. Dufour, N. Rousse, P. Canioni* 231
A complex of rab3A, SNAP-25, VAMP/synaptobrevin-2 and syntaxins in brain presynaptic terminals (FEBS 12975) *H.P.M. Horikawa, H. Saisu, T. Ishizuka, Y. Sekine, A. Tsugita, S. Odani, T. Abe* 236

Commentary

A comment on: 'Homology of the NifS family of proteins to a new class of pyridoxal phosphate-dependent enzymes', by Christos Ouzounis and Chris Sander (1993) FEBS Lett. 322, 159–164 (FEBS 12940) *P.K. Mehta, P. Christen* 241
Commentary Response (FEBS 12941) *C. Ouzounis, C. Sander* 242

Research Letters

Efficient enzymatic synthesis of the sialyl-Lewis^x tetrasaccharide: A ligand for selectin-type adhesion molecules (FEBS 12954) *T. de Vries, D.H. van den Eijnden, J. Schultz, R. O'Neill* 243
A novel form of FGF receptor-3 using an alternative exon in the immunoglobulin domain III (FEBS 12976) *A. Avivi, A. Yayon, D. Givol* 249
Use of substituted and tandem-repeated peptides to probe the relevance of the highly conserved RGD tripeptide in the immune response against foot-and-mouth disease virus (FEBS 12978) *I.S. Novella, B. Borrego, M.G. Mateu, E. Domingo, E. Giralt, D. Andreu* 253
Tyrphostin-induced differentiation of mouse erythroleukemia cells (FEBS 12977) *M. Anafi, A. Gazit, C. Gilon, Y.B. Neriah, A. Levitzki* 260
Extracellular secretion of STa heat-stable enterotoxin by *Escherichia coli* after fusion to a heterologous leader peptide (FEBS 12979) *J. Sanchez, R.M. Solorzano, J. Holmgren* 265
Cyclic ADP-ribose induced Ca^{2+} release in rabbit skeletal muscle sarcoplasmic reticulum (FEBS 12981) *J. Morrissette, G. Heisermann, J. Cleary, A. Ruoho, R. Coronado* 270
Thermostability of β-xylosidase from *Aspergillus sydowii* MG49 (FEBS 12980) *M. Ghosh, G. Nanda* 275
Functional expression of human P-glycoprotein in *Schizosaccharomyces pombe* (FEBS 12982) *K. Ueda, A.M. Shimabuku, H. Konishi, Y. Fujii, S. Takebe, K. Nishi, M. Yoshida, T. Beppu, T. Komano* 279
Cantharidin, another natural toxin that inhibits the activity of serine/threonine protein phosphatases types 1 and 2A (FEBS 12983) *R.E. Honkanen* 283
Expression of low-affinity NGF receptor and trkB mRNA in human SH-SY5Y neuroblastoma cells (FEBS 12984) *P.B. Ehrhard, U. Ganter, B. Schmutz, J. Bauer, U. Otten,* 287
Uteroglobin, an apically secreted protein of the uterine epithelium, is secreted non-polarized from MDCK cells and mainly basolaterally from Caco-2 cells (FEBS 12985) *L.K. Vogel, G. Suske, M. Beato, O. Norén, H. Sjöström* 293
Turnover rates of the canine cardiac Na,K-ATPases (FEBS 12988) *J.M. Maixent, I. Berrebi-Bertrand* 297
^{1}H assignment and secondary structure determination of human melanoma growth stimulating activity (MGSA) by NMR spectroscopy (FEBS 12986) *W.J. Fairbrother, D. Reilly, T. Colby, R. Horuk* 302
Immunohistochemical analysis of rat *S*-adenosylmethionine synthetase isozymes in developmental liver (FEBS 12922) *S. Horikawa, H. Ozasa, K. Ota, K. Tsukada* 307
Glut 4 content in the plasma membrane of rat skeletal muscle: comparative studies of the subcellular fractionation method and the exofacial photolabelling technique using ATB-BMPA (FEBS 12987) *S. Lund, G.D. Holman, O. Schmitz, O. Pedersen* 312
The transforming activity of activated Gα12 (FEBS 12989) *H. Jiang, D. Wu, M.I. Simon* 319
Isoprenylation of Rab proteins possessing a C-terminal CaaX motif (FEBS 12990) *G. Joberty, A. Tavitian, A. Zahraoui* 323
Cloning and expression of novel isoforms of 6-phosphofructo-2-kinase/ fructose-2,6-bisphosphatase from bovine heart (FEBS 12991) *H. Vidal, K.M. Crepin, M.H. Rider, L. Hue, G.G. Rousseau* 329
Asparagine-135 of elongation factor Tu is a crucial residue for the folding of the guanine nucleotide binding pocket (FEBS 12963) *A. Weijland, R. Sarfati, O. Bârzu, A. Parmeggiani* 334
Primary structure of three cationic peptides from porcine neutrophils: Sequence determination by the combined usage of electrospray ionization mass spectrometry and Edman degradation (FEBS 12933) *O.A. Mirgorodskaya, A.A. Shevchenko, K.O.M.A. Abdalla, I.V. Chernushevich, T.A. Egorov, A.X. Musoliamov, V.N. Kokryakov, O.V. Shamova* 339

cDNA structure and in situ localization of the *Aplysia californica* pro-hormone convertase PC2 (FEBS 12993) *T. Ouimet, A. Mammarbachi, T. Cloutier, N.G. Seidah, V.F. Castellucci* 343

Rapid and transient thrombin stimulation of phosphatidylinositol 4,5-bisphosphate synthesis but not of phosphatidylinositol 3,4-bisphosphate independent of phospholipase C activation in platelets (FEBS 12992) *C. Racaud-Sultan, G. Mauco, C. Guinebault, M. Plantavid, B. Payrastre, M. Breton, H. Chap* 347

Notes to Authors 352

Author Index to Volume 330 354

Contents to Volume 330 358